

BRONITKI, A.I.; DEREVICI, A.; BALMUS, Gh.; SONG, Pham

Action of histamine on the tracheal cytograms of mice subjected to influenza infection. Stud. cercet. inframicrobiol. 12 no.3:367-373 '61.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(INFLUENZA experimental) (TRACHEA pathology)
(HISTAMINE pharmacology)

RUMANIA

Al. BRONITKI, R. DEMETRESCU, G. DONA, M. CONSTANTINESCU and A. CAZACU,
Inframicrobiology Institute of the Rumanian Academy [of Sciences]
(Institutul de Inframicrobiologie al Academiei R.P.R.) [Bucharest.]

"Isolation of Large Inframicrobes During the Influenza Epidemic 1962."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 2, 1963;
pp 197-201.

Abstract [English summary modified]: From 171 specimens (including 110 nasopharyngeal smears, 48 of urine) of influenza patients during the 1962 epidemic, 6 influenza virus strains were isolated but only when incubating at 35 rather than 37 centigrade. Also 10 larger, rickettsia-like agents (cell size 200 to 400 microns) Speculative discussion as to significance; considered probable. Three photomicrographs; 10 Rumanian (incl. thesis) and 3 Western references.

1/1

RUMANIA

APPROVED FOR RELEASE: 08/22/2000
A. BRONITKI, G. DONA, G. ISAIA and R. DEMETRESCU, Institute of
Inframicrobiology of the Rumanian Academy [of Sciences]
(Institutul de Inframicrobiologie al Academiei R.P.R.) [Bucharest.]

"Cultivation of Adenovirus Type 3 in the Lung of White Mice."

Bucharest, Studii si cercetari de inframicrobiologie, Vol 14, No 3,
1963; pp 329-334.

Abstract [English summary modified]: Adaptation of adenovirus type 3 to mice lungs by successive passages. Characteristic lesions of cell nuclei appeared. After 10 such serial passages, the virus was passed into embryonic human cell tissue culture, producing typical plaques therein, preventable by specific antiserum. Four photomicrographs, 2 Rumanian, 1 Japanese and 18 Western references.

BRONITKI, A.; DIMETRESCU, R.; POPESCU, G.; MALIAN, A.

Isolation of adenovirus from a human case of pulmonary carcinoma. Acta virol. 8 no.5:472 S '64.

1. Institute of Inframicrobiology of the R.P.R. Academy ,
Bucharest, Rumania

BRONETTI, A. A. ROBERTSON, R.; MALIAN, A. asist. med.

Influence of anti-influenzal and anti-adenoviral antibodies in domestic and wild animals. Stud. cercet. inframicrobiol. 16 no.3: 217-220 '65.

DEREVICH, A. [Derevici, A.]; BRONITSKI, A. [Bronicki, A.]; PETRESKU, A.
[Petrescu, A.]

Biological characteristics of influenza virus strains isolated in
Rumania; relation to strains isolated during the influenza epidemic
in February and March 1959. Vop.virus. 6 no.5:560-564 S-O '60.
(MIRA 14:7)

1. Institut inframikrobiologii Akademii nauk Rumynskoy Narodnoy
Respubliki.

(RUMANIA---INFLUENZA)

PEEDESKU, L.; BRONITSKII, A.; ISAIIA, G.

Behavior of fibroblasts and epithelial cells in the isolation of
adenoviruses. Rev. sci. med. 7 no.1/2:115-118 '62.
(ADENOVIRUS) (EPITHELIUM)

PORTOKALE, R. [Portocala, R.]; DUMITRESKO, S. [Dumitresco, S.]; IONESKU, I.
[Ionescu, I.]; BRONITSKIY, A. [Bronitki, A.]

Morphological characteristics of 3 types of influenza virus, including
one with a double antigen. Vop. virus 6 no.4:408-415 J1-Ag '61.
(MIRA 14:11)

1. Institut inframikrobiologii Akademii nauk Rumynskoy Narodnoy
Respubliki, Bukharest.

(INFLUENZA)

BRONITSKIY, N.I. (Gulistan)

Horizontal and vertical drainage in the old zone of the Golodnaya
Steppe. Gidr. i mel. 14 no. 9:12-20 S '62. (MIRA 17:2)

BRONITSKIY, N.I.

Possibilities for using surface drainage in the Golodnaya
Steppe. Trudy SANIIRI no. 98:33-42 '59. (MIRA 14:1)
(Golodnaya Steppe--Drainage)

BRONITSKIY, N.I.

Land reclamation problems in the Golodnaya Steppes. Mat. po
preizv. sil. Uzb. no.15:260-270 '60. (MIRA 14:8)

1. 1-ya direktsiya Glavgolodnostepstroya.
(Golodnaya Steppe—Water, Underground)

BRONITSKIY, N.I. (g. Mirzachul' Uzbekskoy SSR)

First results of the use of vertical drainage in the Golodnaya
Steppe. Gidr. i mel. 13 no.9:24-32 S '61. (MIRA 14:9)
(Golodnaya Steppe--Drainage)

BRONITSKIY, Ye.I.

Constructing retaining walls along the mountain roads of Kirghizistan.
Avt. dor. 23 no.10:13-14 0 '60. (MIRA 13:10)
(Kirghizistan--Retaining walls) (Road construction)

BRONITSKIY, Ye.I., inzh.

Using the materials of mountain talus in constructing the Frunze-
Osh highway. Avt. dor. 27 no.8:12-13 Ag '64. (MIRA 17:12)

BRONKALLA, V.; CHUPRINA, R.I., nauchnyy sotrudnik; KLEPIKOVA, L.A.,
nauchnyy sotrudnik; BRATIYCHUK, M.V.; NEVEL'SKIY, A.V., mladshiy
nauchnyy sotrudnik; KAKHKHOROY, A.; ZAV'YALOV, F.P.; VOLYNSKIY,
B.A.

Results of photographic observations of artificial earth
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.1:14-22 '60.
(MIRA 13:5)

1. Bahel'aberskaya observatoriya, Berlin, Germanskaya Demokrati-
cheskaya Respublika (for Bronkalla).
 2. Astrosovet AN SSSR (for
Chuprina, Klepikova).
 3. Nachal'nik stantsii opticheskikh
nablyudeniye Uzhgorodskogo gosuniversiteta (for Bratiychuk).
 4. Astronomicheskaya observatoriya Ural'skogo gosuniversiteta,
Sverdlovsk (for Nevel'skiy).
 5. Stantsiya fotonablyudeniye
iskusstvennykh sputnikov Zemli O68 Instituta astrofiziki AN
Tadzhikskoy SSR, Stalinabad (for Kakhkhorov, Zav'yalov).
 6. Nachal'nik stantsii nablyudeniye iskusstvennykh sputnikov
Zemli pri Yaroslavskoy pedinstitute (for Volynskiy).
- (Artificial satellites—Tracking)

L 8968-66 21, 44, 55

ACC NR: AP5027430 SOURCE CODE: UR/0181/65/007/011/3417/3420

AUTHOR: ^{44, 55} Dovchenko, N. K.; ^{44, 55} Bronkevich, Yu. S. 48

ORG: ^{44, 55} Institute of Physics AN SO SSSR, Krasnoyarsk (Institut fiziki AN SO SSSR) B

TITLE: ^{21, 44, 55} Experimental investigation of low frequency oscillations in the critical region of a ferrite for the case of parallel pumping

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3417-3420

TOPIC TAGS: ^{21, 44, 55} ferrite, single crystal, iron, yttrium, garnet

ABSTRACT: Data are given from studies of low frequency oscillations in single crystals of iron-yttrium garnet. Measurements with continuous pumping were made at 9280 Mc, and for pulsed pumping at 8620 Mc. 1.5-3.5 μ sec pulses were used with an inverse duty factor of 1000. Oscillograms of the oscillations are given for the case of continuous pumping. The oscillation frequency was found to be somewhat higher in stronger fields. Maximum frequencies were higher in small spherical specimens than in large ones. It was found that noises are a function of the pumping pulse duration: they disappear with short pulses, but are a constant factor for the case of continuous pumping. It is recommended that means should be studied for eliminating these noises. Orig. art. has: 2 figures, 2 formulas.

SUB CODE: 20/ SUBM DATE: 10Mar65/ ORIG REF: 001/ OTH REF: 003

Cord 1/1 pu)

BRONNER, B.V. ▀

N/5
753.42
.B8

Telegrafist (The Telegraph Operator) Moskva,
Svyazbizdat, 1953.

195 p. Illus., Diagr., Ports.

At Head of Title: Posobiya Dlya Svyazistov
Massovykh Professiy.

"Literatura": p. 193.

BRONNER, B. V.

USSR/ Miscellaneous - Telegraphy

Card 1/1 Pub. 133 - 7/18

Authors : Dyachkov, I. A.; Olenov, A. P.; Bronner, B. V.; and Bushuev, N. K.

Title : To improve the telegraph service

Periodical : Vest. svyazi 2, 17 - 18, Feb 1955

Abstract : Various suggestions are submitted for the improvement in the organization and exploitation of the telegraph communication system for the benefit of all the people of the USSR. Illustration.

Institution:

Submitted:

BROMBER, B.V., otvetstvenny za vypusk; FEDORTSOV, Ye.P., otvetstvenny
za vypusk

[Telegraph Center of the Soviet Union; a collection commemorating
the 40th anniversary of the October Socialist Revolution]
TSentral'nyi telegraf Sovetskogo Soiuza; sbornik k 40-i godovshchine
Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, 1957. 167 p.
(Telegraph) (MIRA 11:4)

BRONNER, B. V.

Bronner, B. V. & Kokosov, L. V.

Telecommunications engineering

Put' telegrammy. Moscow, Gosudarstvennoe Izdatel'stvo Literatury po Voprosam
Svyazi i Radio, 1949.

Pp. 63, illus., photos, diags., 22 x 14.

LXIII-1

BRONNER, B.V., inzh.

Restoring vigor. Zdorov'e 5 no.4:11 Ap '59.

(MIRA 12:4)

1. Zamestitel' nachal'nika Tsentral'nogo telegrafa.
(CALLISTHENICS)

BRONNER, B.V.

Work should be performed without checking the printed transmitted data on all duplex telegraph communications. Vest. sviazi 20 no.11: 16-18 N '60. (MIRA 13:12)

1. Zamestitel' nachal'nika Tsentral'nogo telegrafa SSSR. (Telegraph)

BRONNER, Boris Vul'fovich; NEKRASOVA, L.K., red.

[Organization of teletype service; lectures on the organization and planning of telegraph communication] Organizatsiia abonentskogo telegrafno: sviazi. Moskva, Vses.zaochnyi elektrotekh.in-t sviazi, 1961. 18 p. (MIRA 14:11)

(Teletype)

117

WERNER, G.

BRONSKA (G.). Wann ist die Bekämpfung der Blattkrankheiten rentabel? [When is leaf disease control profitable?]-Zucker, 4, 17, pp. 357-360, 2 figs., 1 graph, 1951.

Conditions in the Danube Valley, especially in Upper Austria, where mists are frequent in August, are ideal for the development of beet leaf spot (*Cercospora beticola*) [R.A.M., 26, p. 520 and next abstracts]. In humid, warm weather the writer has repeatedly found leaves bearing over 1,000 spots. Thirty dead leaves per plant represents severe infection, but in extreme cases there may be as many as 60.

The only reliable means of combating leaf spot in regions threatened by epiphytotics is by the application of copper sprays, beginning before infection takes place and continuing through August or even later, attacks having occurred in early September, 1950. The results of experiments covering a period of nearly 20 years at Enns have shown that susceptible varieties produce larger yields after spraying than do untreated, partially resistant ones. In 1950 two of the latter, CLR

BROHNER, V.V.

Diet for tuberculous children of pre-school age in hospitals. *Pediatrics*,
Moskva No.5:66-70 Sept-Oct 51. (CML 21:4)

1. Of the Department of Children's Nutrition, Institute of Nutrition of
the Academy of Medical Sciences USSR (Head—Yu.K. Polteva; Director of
Institute—Prof. O.P. Molchanova) and of Frunzenskiy Rayon Tuberculosis
Children's Hospital (Head Physician—S.M. Belousova), Moscow.

~~BRONNER V. V.~~ Sec 18 Vol. 1/12 Cardiovas. Dis Doc 57

3370. LEITES B. G. and BRONNER V. V. *Dietotherapy in cardio-vascular failure in children with rheumatism. 2. Milk diets (Russian text)* *Pediatrics* 1957, 2 (45—49) Tables 2

Karell's milk diet, even with its recent modifications, has very little nutritive value and is not suitable for cardiac children in the active period of growth and with cardiac dystrophy. More suitable in these cases is the 'curd' diet, because it contains more calcium and potassium salts and less sodium. The curd is combined with sugar, apples and milk in the acute stage of the heart failure, and afterwards potatoes are added. Curd has a highly diuretic effect and in any case stimulates the action of mercurials. The vitamin requirements are met by 20% glucosate solutions with juice of fruit available in the season in question, or with ascorbic acid.

Levin - Buenos Aires (XVIII, 7)

BRONNER, V.V.; POLTEVA, Yu.K.

Basic principles in the organization of children's nutrition under sanatorium and health resort conditions. Vop. okh. mat. i det. 5 no. 5:17-22 S-O '60. (MIRA 13:10)

1. Iz otdela detskogo pitaniya (zav. - kand.med.nauk Yu.K. Polterva) Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.P. Molchanova). (DIET IN DISEASE)

BRONNER, V.V.; KOCHEGINA, V.V.; ZUBRILINA, G.V.

Protein, and vitamin C and B₂ requirements of children in boarding schools. *Pediatrics* no.6:21-25 '61. (MIRA 14:9)

1. Iz otdela detskogo pitaniya (zav. Yu.K. Polteva) Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.P. Molchanova).
(PROTEINS) (ASCORBIC ACID) (RIBOFLAVIN)

BRONNER, V.V. (Moskva)

Nutrient requirements under conditions prevailing in boarding schools. Vop. pit. 24 no.1:42-44 Ja-F '65.

(MIRA 18:9)

1. Laboratoriya izucheniya pitaniya zdorovykh detey in podrostkov Otdela detskogo pitaniya (zav.- dotsent P.V. Simakov) Instituta pitaniya AMN SSSR, Moskva.

BRONNIKOV, A., inzh.

At a fast pace. Sov.shakht. 10 no.3:18 Mr '61. (MIRA 14:7)

1. Tekhnicheskiiy otdel tresta Luganskshakhtoprokhodka.
(Lugansk Province--Mine timbering)

BRONNIKOV, A. A.

Electromechanical filters. Radio no. 6:41-44 J. '56. (MLRA 9:8)
(Radio filters)

8(0)

SOV/112-59-3-5817

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 223 (USSR)

AUTHOR: Bronnikov, A. A.

TITLE: Electromechanical Filters With Rectangular Plate-Type Resonators
(Elektromekhanicheskiye fil'try s pryamougol'nymi plastinchatymi rezonatorami)

PERIODICAL: Radiotekhn. proiz-vo, 1957, Nr 11, pp 16-38

ABSTRACT: The parameters of iterative band filters used in 100-500-kc IF amplifiers can be materially improved if their Q-factor is increased by using mechanical resonators that have a Q-factor of 1,000-2,000 and up to 8,000-10,000 and higher. The connection of a mechanical oscillatory system to an electric circuit is realized through mechanical transducers. Filters using longitudinal oscillations of rectangular plate-type resonators are considered. A block diagram of the electromechanical filter consists of an electro-mechanical transducer that converts electrical oscillations into mechanical,

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SOV/112-59-3-5817

Electromechanical Filters With Rectangular Plate-Type Resonators

a chain of series-connected mechanical resonators, and a mechano-electrical transducer that converts mechanical oscillations back into electrical. The mechanical-resonator chain, assumed to be a distributed-parameter system, is analyzed by matrix methods of the theory of nonuniform symmetrical lines and of the general filter theory. Relations are derived and graphs plotted that determine the filter characteristics depending on the parameters of their components. Methods and procedure for filter design are given. In view of the fact that an accurate solution of the problem of mechanical-resonator oscillations is very complicated, results are submitted of experimental investigations of frequency variation of a rectangular resonator depending on its geometric dimensions, on the nature and method of application of load. Secondary phenomena associated with the experimental techniques are discussed in detail. Results of many experiments are presented that permit evaluating the fundamental characteristics of piezoelectric and magnetostriction

Card 2/3

SOV/112-59-3-5817

Electromechanical Filters With Rectangular Plate-Type Resonators

electromechanical transducers (sensitivity, electromechanical-coupling factor, passband maximum width). Measuring instruments, filter design, and technology of filter manufacture are described. Bibliography: 50 items.

I.M.K.

Card 3/3

Л. И. Фельдман

Метод расчета нелинейных систем без релаксации
конфигурации в цепи элементов цепи.

В. Ф. Голосин

Широкополосные выходящие мощности цепи с
нелинейными параметрами.

А. А. Бронин

Расчет амплитудной системы нелинейного ам-
плитудного фильтра.

Р. Г. Воронин

Расчет нелинейного сопротивления нелинейного
параметрического.

12 часов
(с 10 до 16 часов)

С. И. Андреев,
Н. С. Ступин

Распространение волн в системе с нелинейными па-
раметрами.

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А. Л. Фельдман

А. Р. Яков

Опыт в проектировании нелинейных нелинейных ам-
плитудных СВЧ-тракта.

В. В. Григорьев-Рубин

Общая теория нелинейных нелинейных параметри-
ческих.

А. Г. Константиновский

Вопрос нелинейной стабильности режима деления
частоты нелинейных параметрических генераторов.

12 часов
(с 16 до 22 часов)

Л. В. Савин

Практическая система нелинейных элементов,
адаптируемая к нелинейной.

Л. Т. Ким

Воздействие суммы нелинейных элементов на
нелинейную параметрическую.

В. А. Воронин

К характеристикам нелинейных нелинейных ам-
плитудных параметрических устройств.

49

report submitted for the Confidential Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in. A. S. Paper (VNIIE), Moscow,
6-12 June, 1959

BRONNIKOV, Aleksandr Alekseyevich; TIKHOMIROV, O., red.; PODSHEBYAKIN, I.,
tekh. red.

[Stage-lighting equipment] Osvetitel'noe oborudovanie stsny.
Moskva, Gos. izd-vo "Iskusstvo," 1961. 108 p. (Repertuar khu-
dozhestvennoi samodeiatel'nosti, no.21) (MIRA 14:10)
(Stage lighting)

BRONNIKOV, A.Ch.; VESKLOV, V.K.

Some properties of potassium metaphosphate. Chem prum 12 no.11:
613-614 N 162.

BRONNIKOV, A. I.

PA 55/49T28

USSR/Electricity
Electric Power Plants
Repairs

Jan 49

"Necessity for Having a Centralized Repair Organization for Power Stations," A. I. Bronnikov, Eng'r,
1 1/2 pp

"Elek Stants" No 1

In recent years repairs have been carried out in many power stations by regular station personnel rather than by a special repair organization. Centralization of overhaul and repairs not only increases quality of work but requires smaller reserve of replacement parts (already tried out

USSR/Electricity (Contd.)
55/49T28

Jan 49
in Leningrad with satisfactory results). Special tasks were carried out in 1948 by these centralized repair shop organizations.

55/49T28

USSR/Electricity
Electric Power Stations
Steam Turbines

Jun 49

PA 53/49130

"An Experiment in Organizing Centralized Major Overhaul in Electric Stations," A. I. Bronnikov, *Engr*, 1 p.

"Elek Stants" No 6

Can Repair Factory of Mosenergo carried out a series of measures to improve centralized major overhaul of electric-station equipment. These included accurate estimates of work, better supervision of work performed at electric stations, organization of permanent repair crews at

53/49130

USSR/Electricity (Contd)

Jun 49

stations, establishment of special areas for certain types of work, use of electric cranes and winches built at the factory, etc. In 1948, the factory carried out major overhauls on 24 boilers and 11 steam turbines.

BRONNIKOV, A. I.

53/49130

BRONNIKOV, A.I., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor.

[Mechanization of repair work in electric power stations]
Mekhanizatsiia remontnykh rabot na elektrostantsiakh. Moskva,
Gos.energ.izd-vo, 1955. 87 p. (MLRA 8:11)
(Electric power plants)

BRONNIKOV, Aleksandr Ivanovich; VINNITSKIY, D.Ya., red.; BUL'DYAYEV,
N.A., tekhn. red.

[Repair of high-capacity steam boilers] Remont parovykh kot-
lov bol'shoi moshchnosti. Moskva, Gosenergoizdat, 1963. 319 p.
(MIRA 16:7)

(Boilers--Maintenance and repair)

BRONNIKOV, A. KH., POSTNIKOV, V. F. and KUNIN, T. I.

"The production of sodium ferrocyanide from calcium cyanamide", Trans, Inst. Chem
Tech. Ivanovo(USSR) 1, pp 77-86, 1935.

NOTE: See card for POSTNIKOV, V. F. for abstract.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Microamination of the 1900 line in commercial cyanide. V. P. Postnikov, A. Kh. Bronnikov and I. P. Kirilov. *J. Applied Chem. (U. S. S. R.)* 18, 821-7 (in French 1957)(1957).—A mixt. of NH_3 , CO and HCN obtained by passing CO and NH_3 over a catalyst of Al_2O_3 or C, is made to react with the con. cyanamide or the catalyst is mixed with the cyanamide and the mixt. treated directly with CO and NH_3 at 100-200°. A. A. P.

ASAC-ELA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE

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COMMON ELEMENTS																										RARE EARTH ELEMENTS																										METALS AND ALLOYS																										POLYMERS																									
1ST AND 2ND GROUPS																										3RD AND 4TH GROUPS																										5TH AND 6TH GROUPS																										7TH AND 8TH GROUPS																									
CA Preparation of sodium hexameta-phosphate. A. Kh. Bironnikov and V. F. Postnikov. <i>J. Applied Chem.</i> (U. S. S. R.) 11, 1296-1310 (in French, 1938) (1938).—Monosodium phosphate was prepd. by the evapn. of a stoichiometric mixt. of H_2PO_4 and pure Na_2CO_3 to d. 1.48 and crystn. at 16° (if the mixt. be evapd. to d. 1.3, crystn. should be carried out at $3-4^\circ$). The crystals contained 49.7% P_2O_5. In the prepn. of the same compd. from tech. reagents evapn. to dryness is necessary, since the product does not recrystallize. The least corrosive action of the evapng. soln. was observed with Pb and the highest with Fe. The best conditions for prepn. of $(NaPO_3)_6$ were heating $NaH_2PO_4 \cdot 2H_2O$ at (220°) for 15-30 min. and rapid cooling of the molten mass by immersion of the container in cold water. The "activity" of $(Na_2PO_3)_6$ was detd. by titration with 1% soln. of $BaCl_2 \cdot 2H_2O$ at room temp. to appearance of equivalence of soln. and by the amt. of gypsum dissolved in the $(NaPO_3)_6$ soln. The "activity" of $(NaPO_3)_6$ was higher in the products contg. less pyrophosphate. The product contained about 82% of $(NaPO_3)_6$. Fe, cast Fe and steel cannot be used for the construction of app., but fused basalt and fire clay were used and gave satisfactory results. A. A. Podgorny																																																																																																							
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																																																																							
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1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
<i>Decomposition of Kineshemak phosphorites with nitric acid. A. Kh. Bronnikov and V. P. Rustnikov. Trans. Inst. Chem. Tech. Ivanovo (U. S. S. R.) No. 2, 52-6 (1939).—Expts. were conducted with Kineshemak phosphorites of the following compn: P_2O_5 22.3, CaO 38.0, R_2O_3 3.0, H_2O 2.8 and insol. residue 14.8%. Fifty-g. samples were decompd. by the gradual addn., while stirring, of 15-40% HNO_3. The required acid was added in 15 min., after which the contents were further stirred for 15 min., filtered and the wt. and vol. of the filtrate were detd. The slime was washed with water (60°) and the wt. and vol. of the wash waters were detd. The P_2O_5 in the filtrate and ext. were detd. by Nissen's method. The extn. of the P_2O_5 was found to increase with the concn. of the HNO_3 and reached a max. of 92.5% with 25% HNO_3, after which the extn. decreased. The time required for filtration increased with acid concn. Although the acid was added in 15 min., the reaction reached the max. speed after 10 min. By increasing the length of stirring, after the complete addn. of the acid, from 15 to 60 min. the extn. was increased from 92.5 to 93.7%. By using 5% more acid than the stoichiometric requirements the extn. was increased to only 92.7%, but a 5% decrease reduced the extn. to 59.8%. By increasing the fineness of the material to pass a sieve of 4900 openings per cm.² the extn. increased to 95.2%. In passing from fraction (-2500 and +4900) to fraction (-4900) the extn. increased only from 94.5 to 95.2%. B. Z. Kamich</i>					
456-554 METALLURGICAL LITERATURE CLASSIFICATION					

5(1)

AUTHOR: Bronnikov, A. Kh.

SOV/153-58-3-16/50

TITLE: The Production of Potassium and Magnesium Thermophosphates
(O Poluchenii kaliyevykh i magniyevykh termofosfatov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp 86 - 92 (USSR)

ABSTRACT: The working of natural phosphates by thermal methods becomes more and more important. At the NIUIF (=Nauchnyy institut po udobreniyam i insektofungisidam im. Samoylova = Scientific Institute for Fertilizers and Insectofungicides imeni Samoylov) such investigations were carried out by Bekturov and his collaborators (Refs 3,4) et al. under the supervision of Vol'fkovich (Refs 1,2). The aim of the present paper is the determination of the conditions of fusion and sintering of apatite concentrate with potassium and magnesium sulfate, and with a double salt of the langbeinite type ($K_2SO_4 \cdot 2MgSO_4$). For that purpose the components were either fused or sintered together. The tables 1-3 give the results. The sintering of a

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The Production of Potassium and Magnesium Thermophosphates SOV/153-56-3-16/30

concentration with magnesium sulfate in a steam atmosphere as well as the effect of the blowing through of a steam-air mixture were investigated separately. Tables 4 and 5 show the results obtained. The thermophosphate produced was subjected to a radiographic and chemical analysis. Based on the results the reaction mechanism assumed is mentioned. The results of the paper made the authors conclude the following: 1) In fusing (up to 1300°) and sintering potassium sulfates with an apatite concentrate the reaction does not take place. 2) Due to the fusion of the apatite concentrate with potassium and magnesium sulfate a product is formed that has not a high P_2O_5 content: 11-11.5%. 3) The best results were obtained by sintering the concentrate with magnesium sulfate in the presence of steam. During this sintering an exchange decomposition between $Ca_5F(PO_4)_3$ and $MgSO_4$ takes place. 4) The thermophosphate produced contains: 19.9-20.3% of the total P_2O_5 , 18.8% of the P_2O_5 soluble in citric acid, 0.35-0.4% F, 18.4% MgO and 26.3% CaO . There are 5

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The Production of Potassium and Magnesium Thermophosphates SOV/153-58-3-16/30
tables, and 7 references, 5 of which are Soviet.

ASSOCIATION: Ivanovskiy khimiko-tekhnologicheskii institut (Ivanovo
Institute of Chemical Technology); Kafedra tekhnologii
neorganicheskikh veshchestv (Chair of the Technology
of Inorganic Substances)

SUBMITTED: September 9, 1957

Card 3/3

BRONNIKOV, A.Kh.; IMKHANITSEAYA, S.N.

Properties of potassium metaphosphates. Zhur. prikl. khim. 33 no.8:
1733-1739 Ag '60. (MIRA 13:9)

1. Ivanovskiy khimiko-tekhnologicheskii institut.
(Potassium metaphosphate)

BRODNIKOV, A.Kh.

Thermal stability of magnesium sulfate. Izv.vys.ucheb.zav.;
khim.i khim.tekh. 4 no.3:433-436 '61. (IIRA 14:10)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra
tekhnologii neorganicheskikh veshchestv.
(Magnesium sulfate—Thermal properties)

BRONNIKOV, A.Kh.; VESELOV, V.K.

Properties of potassium metaphosphate. Zhur.prikl.khim. 35
no.4:739-746 Ap '62. (MIRA 15:4)

1. Ivanovskiy khimiko-tekhnologicheskij institut.
(Potassium metaphosphates)

BRONNIKOV, A.N.

Voltmeter with a spread dial. Izv. tekhn. no. 9:37 S '63.
(MIRA 17:1)

L 7846-66 EWP(e)/EPA(e)-2/EWT(m)/EWP(i)/EPA(w)-2/EWP(t)/EWP(b) IJP(c)
 ACC NR: AP5028119 JD/WH SOURCE CODE: UR/0048/65/029/011/2055/2058
 AUTHOR: Klimov, V.V.; Nakhodnova, A.P.; Zhabkina, G.M.; Morgachova, N.I.; Bronnikov, A.N.
 ORG: none
 TITLE: Ferroelectric properties of barium, lead, and calcium titanate base solid solutions [Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 1964] 70B
 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2055-2058
 TOPIC TAGS: ferroelectric material, solid solution, barium, lead, calcium, titanate, Curie point, lattice parameter
 ABSTRACT: The authors have determined the Curie points of 17 barium titanate-rich solid solutions of the barium titanate-lead titanate - calcium titanate system; the study was undertaken in view of the technical importance of the materials and the discordance of the available data on them. Uniform mixtures for synthesis were obtained by spray-drying solutions of barium, lead, calcium, and titanium nitrates. The resulting powders were roasted for 2-3 hours at 1000°C, compressed into 20 mm diameter 1.5-1.8 mm thick disks, and sintered at 1260-1340°C for 1-2 hours. Specimens for which the water absorption was less than 0.55% and the porosity less than 2-3% were selected for investigation. The selected specimens were analyzed, x-ray powder photographs were recorded, and their Curie points were determined within 2°C by di- 1544
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L 7846-66

ACC NR: AP5028119

electric constant measurements. It was found that the Curie point increased with decreasing barium content when either the calcium content, the lead content, or their ratio was held constant. When the barium content was held constant the Curie point increased with increasing lead content. The variation of the Curie point with composition in the region of relatively high calcium content differed from that found by McQuarry (J.Amer.Ceram. Soc., 40, No. 2, 35 (1957)) and T.Ikeda (J.Phys.Soc. Japan, 3, No. 4, 335 (1958)), the present measurements giving the higher Curie points in this region. The solid solutions with the higher Curie temperatures had unit cells with larger volumes and, in agreement with the findings of McQuarry and Ikeda (loc.cit. supra), higher degrees of lattice tetragonality. The increase of the Curie temperature with increasing calcium, decreasing barium, and constant lead content contradicts the current opinion that the Curie temperatures of ferroelectrics with the perovskite structure are increased by increasing the volume and polarizability of the ions at the A-sites in ABO_3 crystals. The discrepancy between the present results and those obtained by other authors with single compounds and binary systems is obviously to be explained by the fact that the laws governing the behavior of three-component systems containing A-type ions with different electronic structures are more complex than those applicable to binary systems. The discovery of these laws will require further investigation. Orig. art. has: 5 figures and 1 table.

SUB CODE: SS, EM

SUBM DATE: 00/

ORIG. REF: 003

OTH REF: 006

Card 2/2

22(1)
31(5)

SOV/3-59-4-32/42

AUTHOR:

Bronnikov, A.V., Candidate of Technical Sciences

TITLE:

A Students' Design Office

PERIODICAL:

Vestnik vysshey shkoly, 1959, Nr 4, pp 77-78 (USSR)

ABSTRACT:

On 11 April 1957 the Students Design Office (SKB) was legalized by an order of the Leningrad Shipbuilding Institute. What distinguishes this office from students scientific circles organized at the Institute, is the indispensable demand that every member of the Office must carry the work entrusted to him to a practical result and not be satisfied with the usual report. The SKB is attached to the Chair "Projecting of Ships". All the students belonging to the SKB work on some theme, and sometimes on two. Since its beginning the SKB has completed several important works. The most significant and labor-consuming work was the projecting and building of a cruising, sailing and motor yacht for the institute. It was the second large sea-going steel yacht (18 m long and 24 ton displacement) of the USSR. The students worked out the

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SOV/3-59-4-32/42

A Students' Design Office

technical project which was subsequently approved by the Registr SSSR (USSR Register). The yacht is being built at the Zavod imeni A.A. Zhdanova (Plant imeni A.A. Zhdanov), which decided to build a similar yacht for their own use. The author emphasizes the valuable training experience which the students gained in designing the yacht and describes in detail the work performed by the student - members of the SKB. In his report the author mentions the Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota (Central Naval Scientific-Research Institute).

ASSOCIATION: Leningradskiy korablestroitel'nyy institut (Leningrad Ship-building Institute).

Card 2/2

BROWNIKOV, A.V.

Effect of hull elements and calculated compartments on the
grounding of a ship after symmetrical flooding. Trudy LKI
no.28:5-16 '59. (MIRA 15:5)

1. Kafedra proyektirovaniya sudov Leningradskogo korablestroitel'nogo
instituta.
(Naval architecture)

BRONNIKOV, A.V. kand. tekhn. nauk, starshiy prepodavatel'

Shipbuilding industry in foreign countries during the postwar
period. Mor. flot 19 no.5:39-41 My '59. (MIRA 12:7)

1. Leningradskiy korablestroitel'nyy institut.
(Shipbuilding)

BRONNIKOV, A.V., kand. tekhn. nauk

Design of modern shelter-deck vessels. Sudostroenie 25 no.7:4-7
Jl '59. (MIRA 12:12)

(Naval architecture)

BRONNIKOV, A.V., kand.tekhn.nauk

Structural design and equipment for cargo areas of cargo ships.
Sudostroenie 26 no.3(209):5-9. Mr '60. (MIRA 14:11)
Freighters)

NOGID, Lev Markovich; POPOV, G.I., kand. tekhn. nauk, retsenzent;
BRONNIKOV, A.V., red.; SHAKHNOVA, V.M., red.

[Design of seagoing ships] Proektirovanie morskikh sudov.
Leningrad, Izd-vo "Sudostroenie." Pt.1. [Methods of determining the elements of a proposed ship] Metodika opredeleniia elementov proektiruemogo sudna. 1964. 358 p. (MIRA 17:5)

BRONNIKOV, A.V., kand. tekhn. nauk

Determining the Admiralty coefficients at the initial stages of
ship design. Sudostroenie 30 no.7:9-13 J1 '64. (MIRA 18:9)

BRONNIKOV, A.V.

Hatch dimensions of dry cargo ships and specifications for
open-type ships. Sudostroenie no. 11:21-23 N '65
(MIRA 19:1)

BRONNIKOV, D., nachal'nik uchastka.

Elastic non-sectional shields. Mast.ugl. 2 no. 7:14-16 JI '53.

(MIRA 6:6)

1. No.4 shakhta "Maneikha" Kombinata Kuzbassugol'.

(Coal mines and mining--Safety measures)

BRONNIKOV, D.M.

AGOSHKOV, M.I.; BRONNIKOV, D.M.

Determination of the minimum economical metal content in ores.
Trudy Inst.gor.dela 1:47-51 '54. (MLRA 7:12)

1. Chlen-korrespondent AN SSSR (for Agoshkov)
(Ores--Sampling and estimation)

BRONNIKOV, D.M.; NIKANOROV, V.I.

Determination of the limit of sectional mining of narrow ore veins.
Trudy Inst.gor.dela 1:52-58 '54. (MLRA 7:12)
(Ores) (Mining engineering)

BRONNIKOV, D.M., kandidat tekhnicheskikh nauk; GAGULIN, M.V., gornyy inzhener

Experiment of boring deep holes with the aid of steel shot. Gor.zhur.
no.2:39-43 F'55. (MIRA 8:7)
(Boring)

AGOSHKOV, M.I.; ~~BRONNIKOV~~ D.M., kandidat tekhnicheskikh nauk; KRASAVIN,
G.A., gornyy inzhener.

Testing data on boring rigs having sinking perforators. Gor.zhur.
no.5:17-22 My '56. (MLBA 9:8)

1. Chlen-korrespondent AN SSSR (for Agoshkov); 2. Institut gorno-
go dela AN SSSR.

(Rock drills)

BRONNIKOV, D.M.; GAGULIN, M.V.

Basic problems of blasthole drilling using the steel-shot technique. Trudy Inst.gor.dela 3:89-97 '56. (MLRA 9:8)
(Boring)

SKOCHINSKIY, A.A.; TERPIGOREV, A.M.; SHEVYAKOV, L.D., SERGEYEV, A.A.;
ZAKHAROV, P.A.; USKOV, S.I.; AGOSHKOV, M.I.; MEL'NIKOV, N.V.;
BRONNIKOV, D.M.; YENIKHEYEV, N.B.; PROTOPOPOV, D.D.; SUDOPLATOV,
A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; NAZARCHIK, A.F.; TERPOGOSOV,
Z.A.; BARSUKOV, F.A.; POMORTSEV, A.D.; DEMIDYUK, G.P.; MOLCHANOV,
P.V.; MAKSIMOVA, Ye.P., GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY,
N.S.; BOGOMOLOV, V.I.; KHODOV, L.V.; MOSKAL'KOV, Ye.F.; GONCHAROV,
T.I.

Aleksandr Vasil'evich Kovazhenkov; obituary. Bezop. truda v prom.
1 no.12:35 D '57. (MIRA 12:3)
(Kovazhenkov, Aleksandr Vasil'evich, 1906-1957)

SKOCHINSKIY, A.A.; TERPIGOROV, A.M.; SHEVYAKOV, L.D.; AGOSHKOV, M.I.;
MEL'NIKOV, N.V.; BRONNIKOV, D.M.; YENIKHEYEV, N.B.; NAZARCHIK, A.F.;
TERPOGOSOV, Z.A.; BARSUKOV, F.A.; SERGEYEV, A.A.; PROTOPOPOV, D.D.;
SUDOPLATOV, A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; POMORTSEV, A.D.;
DEMIDYUK, G.P.; KAPITANOV, T.V.; MOLCHANOV, P.V.; MAKSIMOVA, Ye.P.;
GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY, N.S.; BOGOMOLOV, V.I.;
KHODOV, L.V.; MOSKAL'KOV, Ye.F.

Aleksandr Vasil'evich Kovazhenikov; an obituary. Gor. zhur. no.12:
72 D '57. (MIRA 11:1)

(Kovazhenkov, Aleksandr Vasil'evich, d. 1957)

PHASE I BOOK EXPLOITATION 879

• Akademiya nauk SSSR. Institut gornogo dela

Voprosy razrabotki mestorozhdeniy poleznykh iskopayemykh (Problems in the Exploitation of Mineral Ore Deposits) Moscow, Izd-vo AN SSSR, 1958. 251 p. 4,000 copies printed.

Resp. Ed.: Mel'nikov, N.V., Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Grigorash, K.I.; Tech. Ed.: Makuni, Ye.V.

PURPOSE: This book is intended for students and instructors of mining engineering vtuzes and for scientific, engineering and technical personnel engaged in the ore-mining and coal-mining industries.

COVERAGE: The book is a collection of 17 articles written by 18 authors under the direction of Professor Mikhail Ivanovich Agoshkov. It deals with the principles of mining engineering, particularly

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Problems in the Exploitation (Cont.) 879

those applied to underground mining, surveys the technology of coal and ore mining, and discusses the most important practical methods of mine exploitation. The book is divided into four parts. Part 1 discusses the general problem of mining, Part 2 underground exploitation of ore deposits, Part 3 underground exploitation of coal deposits, and Part 4 open-cut mining processes. The articles are accompanied by diagrams, tables and bibliographic references.

TABLE OF CONTENTS:

PART I. GENERAL MINING PROBLEMS

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR and Bronnikov, D.M. Certain Economically Advantageous Factors in Mining 5

The authors discuss the analytical-mathematical method of estimating economically advantageous cost of production and the selection of optimum conditions for given industrial factors. This analytical approach has been advocated for many years by Academician A.A.

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Skochinskiy. There are 5 figures and 12 Soviet references.

Kovazhenkov, A.V., Candidate of Technical Sciences (Deceased), and Barsukov, F.A., Mining Engineer. Breaking and Coarse-Crushing Rocks by Blasting 23

This is an evaluation of the main factors affecting the type of blastings in ore-crushing processes. Patterns of single and group shooting are discussed and a classification of ore materials is presented. The text is accompanied by 8 diagrams and 9 graphs. There are no references.

Lipson, M.A., Candidate of Technical Sciences. Design of Permanent Pillars (The Use of Graphic Methods in Solving Problems in Rock-pressure Theory 33

The author recommends the replacement of empirical, often erroneous, formulas by graphic-analytical methods based on well-known theories of rock pressure. Such a method was developed by S.S.

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Problems in the Exploitation (Cont.) 879

Golushkevich with reference to statically determined masses. A practical case is considered to illustrate the hiatus between empirical formulas and well-developed theories. There are 27 figures, 2 tables, and 19 references of which 13 are Soviet, 4 German, 1 Rumanian, and 1 Hungarian.

PART II. SUBSURFACE EXPLOITATION OF MINERAL DEPOSITS

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR, and Mochalin, M.P., Candidate of Technical Sciences. The Effect of Broken Ore Size on the Rate of Output 73

In mining hard ores the productivity of a mine can be considerably increased by the efficiency of drilling and blasting operations. To reach high production levels the problems of haulage and hoisting must be satisfactorily solved. Scraping time, idling, secondary crushing, the effect of the size of broken rock on the efficiency of transportation, etc. are analytically examined. There are 6 figures and 7 bibliographic references, of which 6 are Soviet

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Problems in the Exploitation (Cont.) 879

and 1 American.

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR; Trumbachev, V.F., Candidate of Technical Sciences; and Mel'nikov, Ye.A., Mining Engineer. Analysis of Stress Conditions and the Stability of Roofs and Interchamber Pillars in Areas of the Kursk Magnetic Anomaly 87

Nearly vertically dipping, tightly folded and compressed feruginiferous quartzites are extracted by the chamber-pillar method with permanently remaining pillars. To test the adequacy of selected dimensions for both components an analytical method for extreme equilibria and suitable tests are presented. There are 16 figures, 4 tables, and 6 bibliographic references, of which 4 are Soviet and 2 American.

Spivakovskiy, A.O., Corresponding Member of the Academy of Sciences, USSR, and Smoldyrev, A.Ye., Candidate of Technical Sciences. Stationary and Mobile Pneumatic Flushing Installations for Nonferrous Metal Mines 103
Card 5/11

Problems in the Exploitation (Cont.) 879

The authors describe techniques and machinery used in silting mines to prevent subsidence, and offer suggestions for the further mechanization of this process. The text contains 8 figures. There are no references.

Baron, L.I., Doctor of Technical Sciences, and Fugzan, M.D., Stalin Prize Laureate. A Study of the Relationship Between the Angle of Natural Repose of Broken Ore and Its Size 115

It has been observed that the angle of natural repose of ore, an important factor which affects various mining designs, decreases with an increase in the size of broken ore. The authors discuss recent analytical and numerical data on the subject. There are 5 figures, 4 tables, and 2 Soviet references.

Baron, L.I., Doctor of Technical Sciences, and Voronyuk, A.S., Candidate of Technical Sciences. Method of Determining the Economic Expediency of Utilizing Underground Crushing Machinery 122

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Problems in the Exploitation (Cont.) 879

Subsurface crushing offers the following advantages: 1) better working conditions and increased safety, 2) increased productivity, 3) more proficient mucking and tramping, and 4) more efficient utilization of hauling and hoisting equipment. Various designs are submitted by the authors. There are 4 figures, 12 tables, and 36 references, of which 24 are Soviet, 9 English, 2 German and 1 French.

Bronnikov, D.M., Candidate of Technical Sciences, and Chistov, V.A., Mining Engineer. The Effect of Blasting-hole Deviation on Ore Production 140

The authors propose and describe methods and techniques for increasing ore output through the control of boreholes by means of electric pulse and gyroscopic equipment. There are 14 figures and 5 tables. There are references.

Baron, L.I., Doctor of Technical Sciences, and Voronyuk, A.S., Can-

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Problems in the Exploitation (Cont.) 879

didate of Technical Sciences. Approximate Evaluation of the True
Volume of Broken Ore by Its Three Maximum Dimensions 153

The authors provide a practical approach for classifying broken ore of different size and computing voids. There are 4 tables, 1 figure, and 2 Soviet references.

Kovazhenkov, A.V., Candidate of Technical Sciences (Deceased), and
Barsukov, F.A., Mining Engineer. Selecting Crosscut Dimensions in
Mining by Blasting 157

The article describes the various techniques used in crosscutting in hard and very hard rocks. There are 3 figures, 4 tables, and 6 Soviet references.

Baron, L.I., Doctor of Technical Sciences, and Fugzan, M.D., Stalin
Prize Laureate. Tests Demonstrating the Effect of the Nonuniformity of Ore Discharge 166

To insure uniformity in ore loading in mining apatite by shrink-

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age and block-carving, a worked out block filled with granulated ore and small wooden cubes (1 cc. in size) was used as a model. The passage of such wooden models provides an idea of the pattern of ore passage. There are 8 figures, 2 tables, and 2 Soviet references.

PART III. SUBSURFACE EXPLOITATION OF COAL DEPOSITS

Novikov, K.P., Candidate of Technical Sciences. Rational Values for Elements in Longwall Methods of Coal Extractions 177

The technical and economic problems in coal production depend on a number of factors such as thickness and dip of seam, timbering, etc. For example, the length of the working face depends on the thickness of the seam. The author gives an analytical estimate of all factors influencing coal mining. There are 9 figures. There are no references.

Baranovskiy, V.I., Candidate of Technical Sciences. Development

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Openings in Unstable Rocks Subject to Heaving in Moderately Pitching
Coal Seams in the Donbass 197

The author reviews the problem of controlling heaving, which increases with depth, and the flaking and disintegration of roofs. The technical and economic indices of a coal mine, such as labor and transportation, are unfavorably affected by such factors. The problem is how to reduce these factors to a practical minimum. There are 15 figures. There are no references.

PART IV. OPEN-CUT MINING

Krasnikov, A.S., Candidate of Technical Sciences. Selecting the Best
Width for Excavator Operations in Stationary Excavation Systems 217

A theoretical treatment of factors affecting the productivity of stationary excavators and a selection of the best parameters for shovel width and revolving angles are presented by the author. There are 6 figures and 2 tables. There are no references.

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Problems in the Exploitation (Cont.) 879

Potapov, M.G., Candidate of Technical Sciences. Operation of Open-Cut Electric Locomotives Loading Trains Directly from Excavators 231
The author presents a theoretical study of loading diagrams for electric locomotives. These concern the electromechanical characteristics of the motor in relation to the efficiency of operations. There are 4 figures and 2 tables. There are no references.

[Author not given]. Mikhail Ivanovich Agoshkov (Fiftieth Birthday Anniversary) 247

This is a brief biographical sketch of Professor M.I. Agoshkov, in honor of his 50th birthday. Professor Agoshkov, a distinguished mining engineer and a Corresponding Member of the Academy of Sciences, USSR, is the author of more than 50 published works. He has received a number of medals and honorific titles, among them the Order of the Red Banner of Labor and the Badge of Honor.

AVAILABLE: Library of Congress

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SCV/118-58-2-6/19

AUTHORS: Agoshkov, M.I., Corresponding Member of AS USSR, Bronnikov, D.M., Candidate of Technical Sciences and Krasavin, G.A., Engineer

TITLE: Drilling Units with Sinking Percussion Drills (Burovyie agregaty s pogruzhnymi molotkami)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 2, pp 17-18 (USSR)

ABSTRACT: The drilling of deep bore holes for the breaking of hard ores involves a large expenditure of time and money. To find the most efficient means of drilling the following rigs with sinking pneumatic drills were tested under similar conditions at different mines: BA-100M, constructed by the West Siberian Branch of the AS USSR and Kuznetskiy metallurgicheskii kombinat (the Kuznetsk Metallurgical Trust); BES-2M constructed by the Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut (the Krivoy Rog Scientific Research Mining Institute) and produced by the plant "Kommunist"; BMK-2b - constructed by the Kyshtymskiy mekhanicheskiy zavod

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Drilling Units with Sinking Percussion Drills

SOV/118-58-2-6/19

(the Kyshtym Mechanical Plant) and PBA-1 constructed by the Institut gornogo dela AN Kazakhskoy SSR (the Institute of Mining Engineering of the AS of the Kazakhskaya SSR) and Leninogorskiy kombinat (the Leninogorsk Trust). The results of the tests are shown in tables 1 and 2. These tests showed the superiority of the BA-100M drilling units, explained by the relatively low weight of its percussion drill (13 kg), its force of impact (7.5 kg) and the high frequency of impacts (1900 a minute). These tests showed that the drilling speed in one time-unit is directly proportional to the number of impacts (Figure 2 and Table 3). Moreover, as the BA-100M unit at the same time flushes the bore hole with water, it creates better working conditions. Finally all auxiliary operations connected with the operation of this unit took much less time than with other tested drilling units (Figure 3). The authors recommend perfecting and stepping up the production of the BA-100M drilling units. Reduction of the diameter of the drill and of the bit as well as a further increase in the frequency of drill strokes is also recommended. There are 3 tables, 2 graphs and 1 photo.

1. Drilling machines---Operation 2. Drilling machines---Test results

Card 2/2

AUTHOR: D.M. Bronnikov (Moscow)

SOV/24-58-6-29/35

TITLE: On Determining the Optimum Diameter of a Borehole for Underground Breaking-up of Ores (Ob opredelenii ratsional'nogo diametra skvazhin dlya podzemnoy otboyki rud)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, 1958, Nr 6, pp 139-141 (USSR)

ABSTRACT: For determining the relation between the diameter of the bore-hole, the line of least resistance and the specific consumption of explosive in the case of a constant d/q value, the author calculates four variants of ratios of these magnitudes which can be materialised in practice. The optimum borehole is considered to be the one for which the auxiliary times are lowest. He concludes that with improving techniques and organisation of the

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drilling work it will be possible to deduce the
auxiliary time and to increase the pure drilling time,
and thus the use of small diameter boreholes will
become more advantageous.

There is 1 graph, and there are 9 references, all Soviet.

SUBMITTED: January 15, 1958

BARANOVSKIY, V.I.; BROMNIKOV, D.M.; KORSHUNOV, S.I.; KULIKOV, A.P.; PARUSIMOV, V.F.; ROZENTRETER, B.A.; RUSHCHINSKIY, M.V.; SUDOPLATOV, A.P.; TERPOGOSOV, Z.A.; SHEVYAKOV, L.D., akademik, otv.red.; GUS'KOVA, O.M., tekhn.red.

[Terminology connected with underground mining systems in solid mineral deposits] Terminologiya sistem razrabotki mestorozhdenii tverdykh poleznykh iskopaemykh podzemnym sposobom. Moskva, 1959. 13 p. (Sbornik rekomenduemykh terminov, no.51) (MIRA 13:1)

1. Akademiya nauk SSSR. Komitet tekhnicheskoy terminologii.
 2. Nauchnaya komissiya Komiteta tekhnicheskoy terminologii AN SSSR (for all except Shevyakov, Gus'kov).
- (Mining engineering--Terminology)

BARON, Lazar' Izrailevich, prof., doktor tekhn.nauk; FUGZAN, Mark
Davidovich, kand.tekhn.nauk; BRONNIKOV, D.M., otv.red.;
ARON, G.M., red.isd-va; ZENDEL', M.Ye., tekhn.red.

[Study of ore delivery in panel mining systems with forced
sublevel caving] Issledovanie vypuska rudy pri sisteme
etashnogo prinuditel'nogo obrusheniia s vyenkol poliami.
Moskva, Isd-vo Akad.nauk SSSR, 1959. 106 p. (MIRA 12:6)
(Mining engineering)

BRONNIKOV, D.M.

Studying shot hole drilling in deposits by hard ores. Trudy
MGRI 34:47-52 '59. (MIRA 13:12)

(Boring)

AGOSHKOV, M.I.; BRONNIKOV, D.M.; KOVAZHENKOV, A.V. [deceased]; NIKANOROV, V.I.; MOCHALIN, M.P.; VORONYUK, A.S.: Prinimali uchastiye: KRASAVIN, G.A.; GAGULIN, M.V.; BARSUKOV, F.A.. TERPOGOSOV, Z.A., kand. tekhn.nauk, otv.red.; NIKOLAYEVA, I.N., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Investigating the main technological processes of underground mining of thick hard ore deposits] Issledovanie osnovnykh tekhnologicheskikh protsessov pri podzemnoi razrabotke moshchnykh mestorozhdenii krepkikh rud. Moskva, Izd-vo Akad.nauk SSSR, 1959. 359 p. (MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore dressing)

BRONNIKOV, D. M. Doc Tech Sci -- (diss) "Study of the parameters of ^{drilling of} blast
^{wells} ~~drilling of pits~~ in ^{the} underground working of thick hard-ore deposits."
Mos, 1959. 27 pp (Acad Sci USSR. Inst of Mining), 150 copies. List of author's
works at end of text (15 titles) (KL, 52-59, 119)

BRONIKOV, P. M.

AUTHOR: Solonov, M.
TITLE: Conference at the Leading Ore-Mining Combine in Tyzny-Auz (Kardino-Balariya) (Soveshchaniye na peredovom kombinatе горнорудной промышленности v Tyzny-Auze (Kardino-Balariya))

SOV/80-59-1-27/29

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr. 1, p. 123 (USSR)
ABSTRACT: A conference was convened on 15-18th September 1958 at the Tyzny-Auz Combine by the Institute of the Academy of Sciences of the USSR, Gosudarstvennyy nauchno-tekhnicheskii komitet Soveta ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers of the USSR), the Kardino-Balariya Sovmash (Kardino-Balariya Economic Council) and the Nauchno-tekhnicheskoye obshchestvo tsvetnoy metallurgii (Scientific and Technical Society for non-ferrous metallurgy). The following reports were presented: "Methods of the Underground Working of Large Deposits of Hard Ores"; "Underground Working of Large Deposits Under Conditions of High Surface Temperature"; "Experience in the Working and Safety Precautions of Inflammable Ural Ores"; "A. O. Shpilalnikov, Institut Oplotivobas (Oplotivobas Institute), "Economic Effectiveness of Using Powerful Equipment in Working Large Deposits"; "P. A. Bolotov, "Work of the VNIIT Institute on the Production of Modern Boring Equipment"; "D. M. Bronnikov, Mining Institute AS USSR", "Comparative Evaluation of Methods of Charge Drilling in Hard Ores"; "A. A. Chibrikov, Sibirskoye otdeleniye AN SSSR (Siberian Department of the AS USSR), "Shield Propping in Working Large Deposits and the Possibility of Using this Propping System in Working Ore Deposits of the USSR"; "V. I. Burakov, Mining Institute AS USSR", "System of Working Large Hard-Ore Deposits in Foreign Quarries".

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of Non-Ferrous and Rare Metals in 1959-1965"; "Methods of the Underground Working of Large Deposits of Hard Ores"; "Underground Working of Large Deposits Under Conditions of High Surface Temperature"; "Experience in the Working and Safety Precautions of Inflammable Ural Ores"; "A. O. Shpilalnikov, Institut Oplotivobas (Oplotivobas Institute), "Economic Effectiveness of Using Powerful Equipment in Working Large Deposits"; "P. A. Bolotov, "Work of the VNIIT Institute on the Production of Modern Boring Equipment"; "D. M. Bronnikov, Mining Institute AS USSR", "Comparative Evaluation of Methods of Charge Drilling in Hard Ores"; "A. A. Chibrikov, Sibirskoye otdeleniye AN SSSR (Siberian Department of the AS USSR), "Shield Propping in Working Large Deposits and the Possibility of Using this Propping System in Working Ore Deposits of the USSR"; "V. I. Burakov, Mining Institute AS USSR", "System of Working Large Hard-Ore Deposits in Foreign Quarries".

Card 2/3

V. I. Burakov, IGU Ural SGR (Mining Institute Ural SGR), "Measures for Improving Mining". After this the conference heard reports on work at the Kordinsky Kombinat (Kordinsky combine), the "Vychay" rudnik (Vychay quarry) of the kombinat Sibkalt (Sibkalt-Alin deposits) of the Dzhetskoye mestorozhdeniye (Dzhetskoye deposit), Tyzny-Auzskiy kombinat (Tzny-Auz combine), Salaiskiy rudnik (Salaiskiy quarry) and the Dzhetskoye mestorozhdeniye (Dzhetskoye deposit). The conference decided on measures for improving mining.

Card 3/3

BRONNIKOV, D.M.

Selecting parameters for a network of boreholes in ore deposit
mining. Kolyma 21 no.2:15-20 F '59. (MIRA 12:7)

1.Gornyy institut AN SSSR.
(Mining engineering)

BARON, Lazar' Izrailovich; BRONNIKOV, D.M., kand.tekhn.nauk, otv.red.
PARTSEVSKIY, V.N., red.izd-va; GOLUB', S.P., tekhn.red.

[Lumpiness and methods of ore sizing] Kuskovatost' i metody
ee izmereniia. Moskva, Izd-vo Akad.nauk SSSR, 1960. 122 p.

(Ore dressing)

(MIRA 13:5)

BRONNIKOV, D.M., kand.tekhn.nauk

Effect of the diameter of blasting holes on the over-all rate
and the specific rate of boring. Trudy Inst. gor. dela 5:97-
100 '60. (MIRA 14:5)

(Boring)

BRONNIKOV, Dmitriy Mikhaylovich, doktor tekhn. nauk; BARANOV, Ye.G., kand.
tekhn. nauk, retsenzent; MALKIN, I.M., kand. tekhn.nauk, retsenzent;
KUTUZOV, D.S., gorn. inzh., retsenzent; PARTSEVSKIY, V.N., red. izd-
va; LOMILINA, L.N., tekhn. red.

[Choice of blasthole parameters in underground ore breaking] Vybor
parametrov vzryvnykh skvazhin pri podzemnoi otboike rud. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 109 p.
(Boring) (Blasting) (MIRA 14:12)

KULICHIKHIN, N.I.; BRONNIKOV, D.M.; RODIONOV, N.S.; KRASAVIN, G.A.

Using high-speed motion picture photography in studying the
impact action on rocks. Izv. vys. ucheb. zav.; geol. i razv.
4 no.4:128-129 Ap '61. (MIRA 14:6)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Rock drill)
(Motion picture in mining)

BIRYUKOV, Innokentiy Mikhsylovich; BRONNIKOV, D.M., doktor tekhn. nauk, retsenzent; GEYMAN, L.M., red. izd-va; SABITOV, A., tekhn. red.

[Boring with a roller bit in mining] Sharoshechnoe burenie v gornom dele. Moskva, Gosgortekhnizdat, 1962. 162 p.
(MIRA 15:9)

(Boring machinery)

BUCHNEV, Valer'yan Konstantinovich, prof., doktor tekhn. nauk,
[deceased]; BRONNIKOV, Dmitriy Mikhaylovich, doktor tekhn.
nauk; VASIL'CHIKOV, Nikolay Vasil'yevich, kand. tekhn. nauk;
GANZEN, Georgiy Aleksandrovich; SHUSTOV, Nikolay Vasil'yevich;
FETEROVICH, Izrail' Izraylevich, inzh.; DEMIDYUK, G.P., otv.
red.; BURTSEV, L.I., otv. red.; KOROLEVA, T.I., red. izd-va;
OSVEYENKO, V.G., tekhn. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Handbook on drilling boreholes in underground workings] Spra-
vochnik po bureniu shpurov i skvazhin na podzemnykh rabotakh.
[By] V.K.Buchnev, i dr. Moskva, Gosgortekhnizdat, 1962. 271 p.
(Boring) (MIRA 15:12)